## PATENT ABSTRACTS OF JAPAN

(11)Publication numb r:

02-172895

(43)Date of publication of application: 04.07.1990

(51)Int.CI. C30B 29/36

C30B 25/14 H01L 21/205

(21)Application number : 63-325220 (71)Applicant : NEC CORP

(22)Date of filing: 22.12.1988 (72)Inventor: OSHITA YOSHIO

## (54) METHOD FOR GROWING SEMICONDUCTOR CRYSTAL

(57)Abstract:

PURPOSE: To uniformly grow an SiC crystal film having a thickness controlled on the order of an atomic layer by CVD on the entrie surface of a substrate having a large area by alternately introducing a mixture of gaseous hydrogen chloride with gaseous silicon chloride and gaseous hydrocarbon into a growth system. CONSTITUTION: When an SiC crystal is grown by CVD with gaseous silicon chloride and gaseous hydrocarbon as starting materials, a mixture of gaseous hydrogen chloride with gaseous silicon chloride such as SiH2CI2 and gaseous hydrocarbon such as C2H2 are alternately introduced into a growth system and an SiC crystal film is grown. Gaseous carbon chloride may be introduced in place of the gaseous hydrocarbon.

## LEGAL STATUS

[Date of request for examination]

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's decision of rejection]

[Date of extinction of right]

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